

FIG. 2A

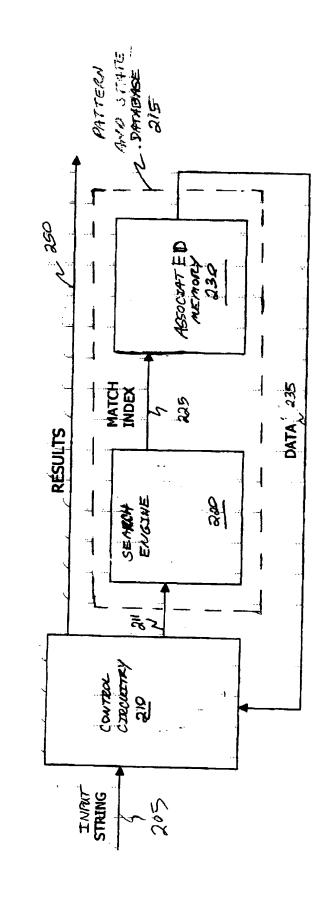
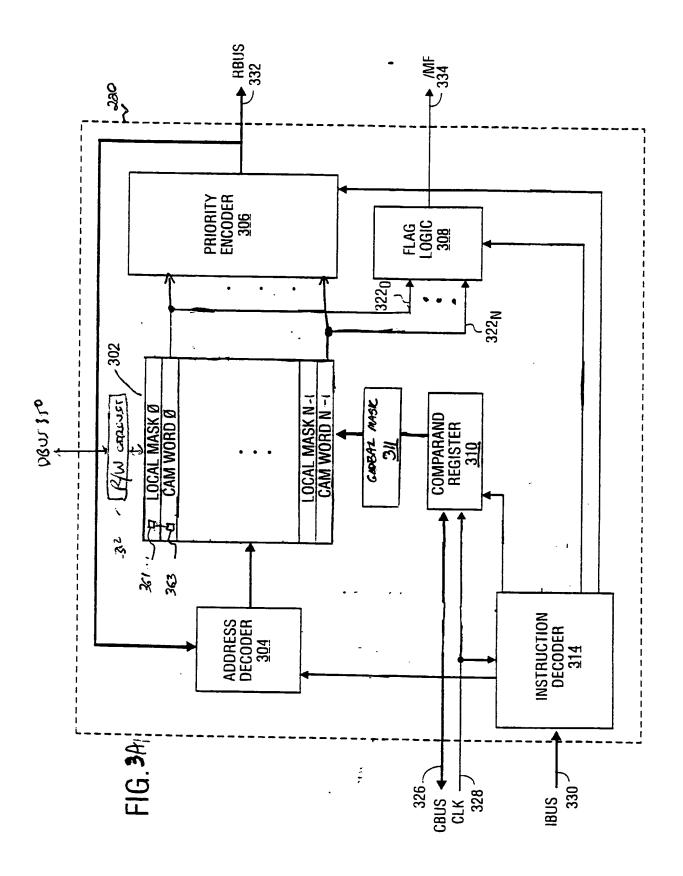
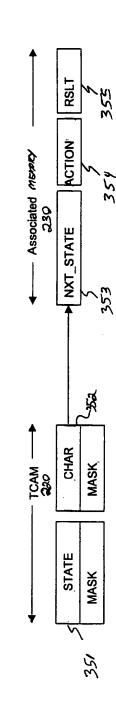


FIG. 2B



PATTORN
AND STATE
DATABAGE
215



F(6. 3B

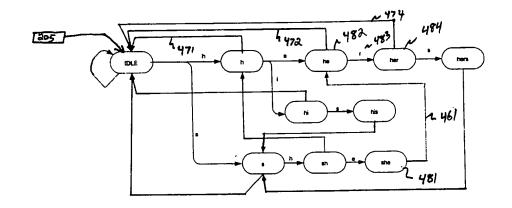


FIG. 4A

		N 351	N 350	عو _{مبر}	354	N. 385
	Address	STATE	CHAR	NXT STATE	ACTION	RESULT
_	ــــــــــــــــــــــــــــــــــــــ			"goto" transit	ions	
(0	IDLE	H	H	NOP	0
1.	11	IDLE	S.	3	NOP	0
1	2	H	Е	HE	OUTPUT Result	1
570" <i>)</i> '	3	'HE	R	HER	NOP	0
woc S	4	HER	S	HERS	OUTPUT Result	2
491 /	5	H	I	HI	NOP	0
$^{\circ}$ L	6	Н	S	HIS	OUTPUT Result	3
- 1	7	S	H	SH	NOP	<u></u>
Ĺ	8	SH	E	SHE	OUTPUT Results	4
_				Failure transit	ions	
F	.9	H	♦	IDLE 11	Failure	0
į į	10	HE	•	IDLE 4782	Failure	0
	-11	S		IDLE YZL	Failure	0
LUCE)	12	SH	•	H	Failure	
100C }	13	SHE	*	HE	Failure	
192 /	14	HIS	•	S	Failure	(D)
" [15	HER	*	IDLE 474	Failure	0
Į.	.16	HERS.		S-	Faihre	0.
-		C-TCAA	A	A	TSSOCIATED ME	

FIG. 4B

PATTERN AND

STATE DATABASE 215

		158 س	على على	N 953	» » 3	54	55	
	Address	STATE	CHAR	NXT STATE	ACTION	RESCUT	1.	
			"goto" tra				k	
(0	IDLE	H	H	NOP	0		
,	\ <u>.1.</u> .	IDLE	· S·	· S-	NOP	0	<u>,</u>	
6670) [2	H	E	HE	Duiror Results	1		
6070 Buok <	3	HE	R	HER	NOP	0	h	
491	1 4	HER	S	HERS	OUTPUT ROSOHS	2	ĺ	
77	5	H	r I	Ш	NOP	O	<u>`</u> .	
/	6	HI	S	HIS	OUTPUT Results	3	ı	
§	7	S	H	SH	NOP	0		
	V 8	SH	E	SHE	DOTPOT Results	4	-	
		· · · · · · · · · · · · · · · · · · ·	Failure tra	nsitions			i	
BLOOK &	12	SH	•	H	Failure	. 0		partern Ano
BUDOK «	13	SHE	•	HE	Failure	0	a	ANO
492 /	14	HIS		S	Failure	0	+	STATE
	16	HERS	•	S	Failure	0		DATIABASE
,	V	. 00.	. *-	IDLE 475	Failure	0		215
		- TCAM	. ———	C- ASS	OCIATED	MENT		
		220			230			

FI6. 4C

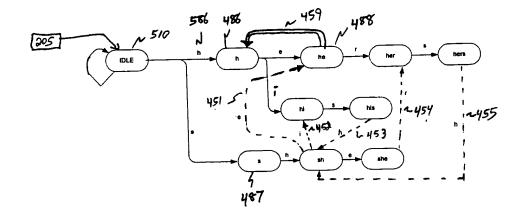


FIG- 5

		ا ي المحادثة مع	N 350	N 35	354	رم محم حة
	Address	STATE	CHAR	NXT STATE	ACTION	RESULT
	0	Н	E	HE	Curry Results	(
/	1	HE	R	HER	NOP I	0
/	2	HER	S	HERS	OUTPUT RESULT	2
	3"	H	I	HI	Nop	0
BLOCK)	4	HI	S	HIS	DUPANT RESULTS	3
211 7	5	S	H	SH	NOP	. 0
)	6	SH	E	SHE	DUMPUT Results	4
- 1	7	SH	1	Н	Nob	0
1	8	HIS	H	SH	NOP	0
(9	SH	E	HE	706	0
300CK 7	-10	.**	·H	H	Nob	0
· 592 {	11	**	S	S	NOC	6
BLOCK {	12	. 44	•	IDLE	NOP	0
593		TC.	M	C- AS	SZD SOCIDATED W	3 ^

FIG. 6

PAITERN AND STATE DATABASE 215

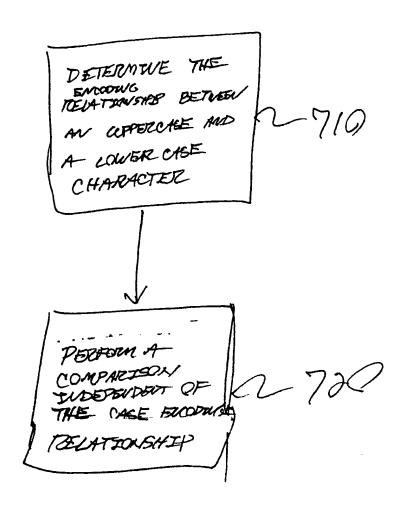


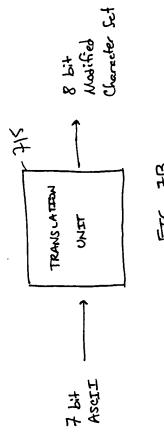
FIG. 7.

1 2 3 9 B C D E F A SI SOH STX ETX EOT ENQ ACK BS TAB VT CR NUL BEL DC1 DLE DC2 DC3 DC4 NAK SYN ETB CAN EM_ SUB. ESC ES. GS RS. US # \$ () 1 6 7 ? : **(** C D E F Ġ H I J ĸ L М N 0 В Q P R s υ. ٣ W **X**--Y 2 - F 3 **f**... h. , i 1 m n ..**b**.. Ç. . d.. **g**.. t 731

F16, 7A

_	_	,			_				_							
12	5	S	_	2	c	·	c				1	·				1
1					z		-							<		,
ם	8	S		u	Σ		٤			T	1	1	1	_	T	
υ	比	FS		V	-	i	-			T	1		Ī	-		
В	Z	ESC	+		×		<u>×</u>		Γ				-	-		
	17	SUB	*		ľ	7		2								
6	m	EM	_	6	_	×		>			1					
8	BS.			∞	H	×	_	×				Ī				
+	BEL	ETB		7	0	3	-									
9	ACK	_	ಷ	9	II.	>					-				-	
S	ENO	NAK	%	T	ш	2	0	3	-					-	-	
4	EOT	DC4	69	Γ	Ω	T	P	-		-					-	
3	ETX	DC3	*#±	3	ပ	S	S	20	-	<u> </u>	-				-	
2	ŞTX	DC2	,	2	63	2	-	L		-	<u> </u>	-	-	 		
	SOH	DCI	-	1	٧	6	8	Ь								
0	NCI	DLE	-	0	-	Ъ		b	-					@	-	
	0	-	7	m	4	S	Ø	7	∞	0	Y	В	Ü	Ω	Ξ	Ľ.

FIGURE 7C



FZ6. 7B

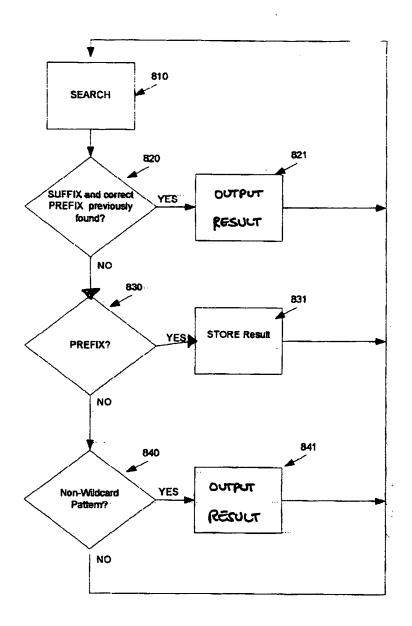


FIGURE 8A

205

FTG. 8B

	N 351	N 35	2 856	N 35	3 N	355 x 354
Address	STATE	CHAR	PREV RSLT	NXT_STATE	RSLT	ACTION
0	IDLE	T	•	IDLE	101	UPDATE CUR PREFEX
1	IDLE	В	+	В	0	NOP
1	В	Ī.	•	BL	0	NOP
3	BL	E	101	IDLE	102	OUTPUT WILD CARD MATCH
L	1	TOM 220		k	Misoc	CAPEO MEMBRY 230

FIG. 8C

	N 351	N 356	2 ~ %	s6 _N 8	.57 93	53 N	, 35 ⁵ y 354
Address	STATE	CHAR	PREV_RSLT	COUNT	NXT STATE		
0	IDLE	T	*	0	IDLE	101	UPDATE CUR PREFIX
1	IDLE	В	*	*	В	0	NOP
2	В	L	+	*	BL	0	NOP
3	BL	E	101	5	IDLE	102	CARD MATER
	\	_ TCAM 201	٥	>	← As	عودية	TEO MEMORY 230

F16. 8D

	351 L	352 /	856 ~	353 س	355 در	354 J
Address	STATE	CHAR	PREV RSLT	NXT STATE	RSLT	ACTION
0	IDLE	S	*	IDLE	102	UPDATE CUR-PREPIX
1	IDLE	T	*	IDLE	101	UPDATE CUR - PREPEX
2	IDLE	. B .	*	-B-	0	NOP
3	В	L	*	BL		NOP
. 4	BŁ	E	101	IDLE	103	OUTPUT FIRST WELD CARD MATCH
5	BL	E	102	IDLE.	104	OUTPUT SECOND WELD CARD MATTER
	├ ←──1	CLAM 270		l	K20@	ated Memory 230

PIG. 8E

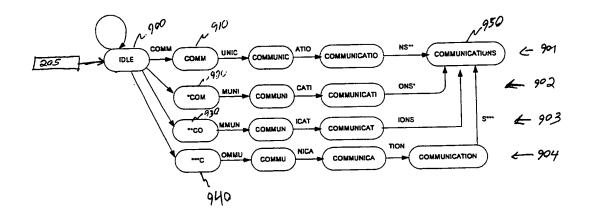
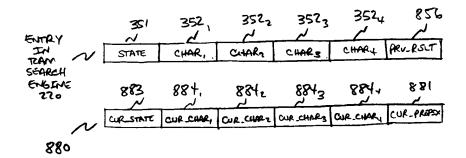


FIG. 9A



F56.98

		351 ~	3 <i>5</i> 2 بر	353	35	354
_	Address	STATE		S NXT STATE	~~	\sim
	0	COMM	UNIC	COMMUNIC	RSLT	1.401.401
/	1	COMMUNIC	ATIO	COMMUNICATIO	10	NOP
/	2	COMMUNICATIO	NSCO	CO	10	NOP
- 1	3.	COM	MUNT	COMMUNI	102	Output result
(4	COMMUNI	CATI	COMMUNICATI	0	NOC
·	·5·	COMMUNICATI	ONSC	C	0	NOP
Rrock >	6	CO	MMUN	COMMUN	102	Output result
BLOCK >	7	COMMUN	ICAT	COMMUNICAT	10	NON
(3)	8	COMMUNICA DON	SCOM		0	408
/ /			1 330	COM	102	Output result
[]	9	C	OMMU	COMMU	ļ	
\	10	COMMU	NICA	COMMUNICA	0	NOP
Y	11	COMMUNICA	TION	COMMUNICA	- O	- NOP
Buck (12	COMMUNICAT	EONS	COMMUNICATION	0	NOT
	13	COMMUNICATIO	NS**	IDLE	102	output result
9602 }	14.	COMMUNICATI	ONS*		102	Output result
([1 0113	IDLE:	102	Output result
4	15	COMMUNICATION	S***	IDLE		<u> </u>
BLOCK (16	*	COMM	COMM	102	NOP
	17		*COM	COMM	0	NOP
9603 }	18		**CO		0	AGN
	19		***C	CO-	0	Noe
BLOCK 960.	20.		****		9	NOP
	r			IDLE	0	406
	10	TCAM 220 -		MSOCIATED A	M a lus B	cy 230 →

FIG 9.C.

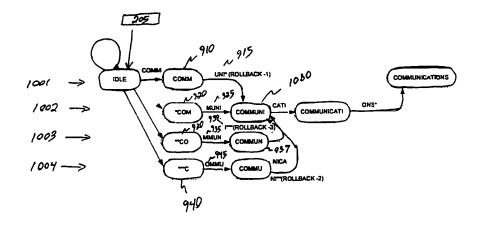


FIG. 10A

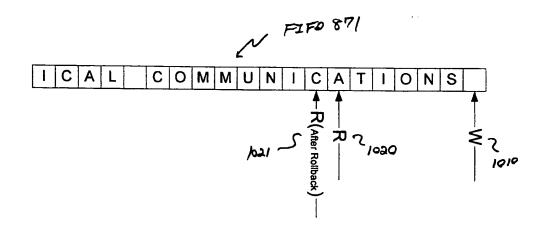


FIG. 10B

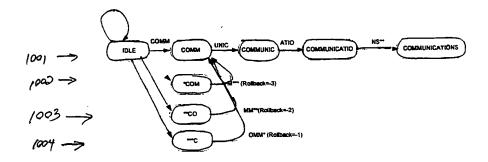
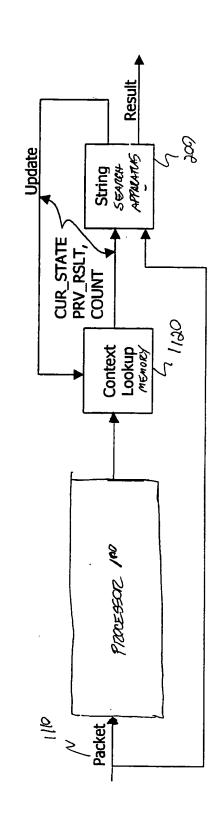


FIG- 10C

	_	351 ~	352 ~	353 يم	/OY/ ROLLBK	ر ر RSLT	ACTION 3 54	1
	Address	STATE	CHARS	NXT STATE	RULIAN	100.		1047
	0	COMM	UNI*	COMMUNI	1	0	NOP	1092
	 	COM	MUNI	COMMUNI	0	0	NOP -	1045
/	2	COMMUNI	CATI	COMMUNICATI	0	:.O-	NOP	k
0 11	3	COMMUNICATI	ONS*	IDLE	1	102	Output result 102	
Brock)	4	CO	MMUN	COMMUN	0	0	NOP	1044
1030,	5	COMMUN]***	COMMUNI	3	0	NOP -	- 10 11
• /	6	C	OMMU.	.COMMU	.0.	.0.	NOP	1045
	7	COMMU	NI**	COMMUNI	2	0.	NOP -	1-104
	8	.*.	COMM	COMM	-0-	-0-	NOP	-
Buok 5	1		*COM	COM	0	0	NOP	↓ `
(030,)	10	*	**CO	co	0	0	NOP	1
	111	*	***C	C	0	0	NOP	1
BLOCK 1030, E	12	*	****	IDLE	0	0	NOP	į
Brock 1020's		- TOAM 22	ە — →	- A5504	eased me	MORY	230	

FIG - 100



F16.11